

CLAIMS

1 1. A method of transmitting data across a firewall, the method
2 comprising:
3 receiving a request to transmit data to a destination;
4 searching for a firewall associated with the destination, the firewall being
5 configured to prohibit communication to the destination via a primary communication
6 protocol and allow communication to the destination via a secondary communication
7 protocol;
8 if the firewall is detected,
9 automatically configuring the data for communication with the
10 secondary communication protocol; and
11 transmitting the data to the destination by utilizing the secondary
12 communication protocol.

1 2. The method of claim 1, further comprising:
2 transmitting the data to the destination by utilizing the primary communication
3 protocol if the firewall is not detected.

1 3. The method of claim 1, wherein the request to transmit the data to the
2 destination comprises a primary address of the destination related to the primary
3 communication protocol and a secondary address of the destination related to the
4 secondary communication protocol.

1 4. The method of claim 3, wherein the desired location is a printer and a
2 print job comprises the data that is requested to be transmitted.

1 5. The method of claim 3, wherein searching for the firewall comprises
2 pinging the primary address of the desired location.

1 6. The method of claim 2, wherein searching for the firewall comprises:
2 scanning the desired location to find an open port, the open port being related
3 to the primary communication protocol; and
4 detecting the firewall, if present, upon not finding the open port.

1 7. The method of claim 2, wherein searching for the firewall comprises:
2 attempting to transmit the data via the primary communication protocol, such
3 that a failure to successfully transmit the data via the primary communication protocol
4 would signify the firewall is present.

1 8. The method of claim 2, wherein the primary communication protocol
2 is any one or combination of the following: the Hyper-Text Transfer Protocol (HTTP),
3 the Transfer Control Protocol (TCP), the Internet Protocol (IP), the File Transfer
4 Protocol (FTP), and the User Datagram Protocol (UDP).

1 9. The method of claim 3, wherein the secondary communication protocol
2 is an electronic mail (email) protocol and the secondary address is an email address;
3 and further wherein automatically configuring the data for communication comprises:
4 generating an email;
5 addressing the email to the secondary address; and
6 populating the email with pertinent information that correlates to the data.

1 10. The method of claim 9, wherein automatically configuring the data for
2 communication further comprises:
3 placing the data in the email.

1 11. The method of claim 9, wherein automatically configuring the data for
2 communication further comprises:
3 attaching the data to the email, the data being stored in a file.

1 12. The method of claim 9, wherein the information that is populated in the
2 email comprises a reference to a remote location where the data is stored.

1 13. The method of claim 3, wherein the secondary communication protocol
2 is the File Transfer Protocol (FTP) and the secondary address is an FTP address.

1 14. A system for rerouting the transmission of data to avoid a firewall, the
2 system comprising:

3 a transmission device configured to search for a firewall protecting a
4 destination, the firewall being configured to prohibit communication to the destination
5 via a primary communication protocol and allow communication to the destination via
6 a secondary communication protocol, the transmission device is further configured to,
7 upon detection of the firewall, automatically configure the data for communication
8 over the secondary communication protocol and transmit the data by utilizing the
9 secondary communication protocol.

1 15. The system of claim 14, wherein the transmission device is further
2 configured to, upon not detecting the firewall, transmit the data to the destination by
3 utilizing the primary communication protocol.

1 16. The system of claim 15, wherein the transmission device is further
2 configured to receive a request to transmit the data to the destination, wherein the
3 request comprises at least one of the following: a primary address and a secondary
4 address of the destination, the primary address being related to the primary
5 communication protocol and the secondary address being related to the secondary
6 communication protocol.

1 17. The system of claim 15, wherein the transmission device is further
2 configured to search for the firewall by scanning the destination to find an open port,
3 the open port being related to the primary communication protocol, upon not finding
4 the open port, the firewall is detected.

1 18. The system of claim 16, wherein the transmission device is further
2 configured to search for the firewall by pinging the primary address of the destination.

1 19. The system of claim 16, wherein the transmission device is further
2 configured to search for the firewall by attempting to transmit the data via the primary
3 communication protocol, such that a failure to successfully transmit the data via the
4 primary communication protocol would signify the firewall is present.

1 20. The system of claim 16, wherein the secondary communication
2 protocol is an electronic mail (email) protocol.

1 21. The system of claim 20, wherein the secondary address is an email
2 address and wherein the transmission device is further configured to automatically
3 configure communication by:

4 generating an email;

5 addressing the email to the secondary address; and

6 populating the email with pertinent information that correlates to the data.

1 22. The system of claim 21, wherein the transmission device is further
2 configured to automatically configure the data for communication by placing the data
3 in the email.

1 23. The system of claim 21, wherein the transmission device is further
2 configured to automatically configure the data for communication by attaching the
3 data to the email, the data being stored in a file.

1 24. The system of claim 21, wherein the information that is populated in
2 the email comprises a reference to a remote location where the data is stored.

1 25. The system of claim 16, wherein the secondary communication
2 protocol is the File Transfer Protocol (FTP) and wherein the secondary address is an
3 FTP address.

1 26. The system of claim 15, wherein the primary communication protocol
2 is any one or combination of the following: the Hyper-Text Transfer Protocol (HTTP),
3 the Transfer Control Protocol (TCP), the Internet Protocol (IP), the File Transfer
4 Protocol (FTP), and the User Datagram Protocol (UDP).

1 27. The system of claim 15, further comprising:
2 a recipient device configured to be the destination, the recipient device further
3 configured to communicate with the primary and secondary communication protocol.

1 28. The system of claim 27, wherein the recipient device is a printer and a
2 print job comprises the data.

1 29. A transmission device configured to transmit data to a destination, the
2 transmission device comprising:

3 means for transmitting the data by utilizing a secondary communication
4 protocol;

5 means for searching for a firewall, the firewall being configured to prohibit
6 communication to the destination by a primary communication protocol and allow
7 communication to the destination via the secondary communication protocol; and

8 means for automatically configuring the data for communication for the
9 secondary communication protocol upon detecting the firewall.

1 30. The device of claim 29, further comprising means for transmitting the
2 data by utilizing the primary communication protocol, wherein upon not detecting the
3 firewall, the data is transmitted by utilizing the primary communication protocol.

1 31. The device of claim 30, further comprising means for receiving a
2 request to transmit the data to the destination.

1 32. The device of claim 31, wherein the request comprises at least one of
2 the following: a primary address and a secondary address of the destination, the
3 primary address being related to the primary communication protocol and the
4 secondary address being related to the secondary communication protocol.

1 33. The device of claim 31, wherein the secondary communication
2 protocol is an electronic mail (email) protocol.

1 34. The device of claim 32, wherein the secondary address is an email
2 address and wherein the means for automatically configuring the data for
3 communication for the secondary communication protocol comprises:

4 means for generating an email;

5 means for addressing the email to the secondary address;

6 means for populating the email with pertinent information that correlates to the
7 data; and

8 means for populating the email with the data.

1 35. A data transmission program stored on a computer-readable medium,
2 the transmission program comprising:

3 logic configured to facilitate the transmission of data by utilizing a secondary
4 communication protocol;

5 logic configured to search for a firewall; and

6 logic configured to automatically configure communication for the secondary
7 communication protocol upon detecting the firewall.

1 36. The program of claim 35, wherein the firewall is configured to prohibit
2 communication to a recipient device via a primary communication protocol and allow
3 communication via the secondary communication protocol.

1 37. The program of claim 36, further comprising logic configured to
2 facilitate the transmission of the data by utilizing the primary communication
3 protocol, wherein upon not detecting the firewall, the data is transmitted by utilizing
4 the primary communication protocol.

1 38. The program of claim 36, further comprising logic configured to
2 receive a request to transmit the data to the recipient device, the request comprising of
3 at least one of the following: a primary address and a secondary address of the
4 recipient device, the primary address being related to the primary communication
5 protocol and the secondary address being related to the secondary communication
6 protocol.

1 39. The program of claim 38, wherein the secondary address is an
2 electronic mail (email) address and the secondary communication protocol is an email
3 protocol; and

4 wherein the logic configured to automatically configure the data for
5 communication for the secondary communication protocol comprises:

6 logic configured to generate an email;

7 logic configured to address the email to the secondary address;

8 logic configured to populate the email with pertinent information that
9 correlates to the data; and

10 logic configured to populate the email with the data.

1 40. The program of claim 38, wherein the secondary communication
2 protocol is the File Transfer Protocol (FTP) and the secondary address is an FTP
3 address.

1 41. The program of claim 36, wherein the primary communication protocol
2 is any one or combination of the following: the Hyper-Text Transfer Protocol (HTTP),
3 the Transfer Control Protocol (TCP), the Internet Protocol (IP), the File Transfer
4 Protocol (FTP), and the User Datagram Protocol (UDP).